

# SU376B

## Assist Monitoring System SekurIt manual



### 1. Product information

|       |                                  |
|-------|----------------------------------|
| Name  | Assist Monitoring System SekurIt |
| Model | SU376B                           |
| Size  | L65*W50*H27mm                    |

SU376B is a practical and easy-to-use GPS+OBD tracking unit specially designed for vehicle tracking. It combines GPS+LBS communication technology. With EPO technology, this device can easily achieve extreme fast positioning.

### 2. Light Indicator

| LED light   | Off  | flashing                                      | Keep ON                                    |
|-------------|--|---|--|
| Red (GSM)   | the device is not turned on or the device is damaged or no SIM card is inserted; | no signal or is not registered on the network | Device online                              |
| Blue (OBD)  | OBD module damaged   | No connect to the vehicle                     | Device read data from vehicle              |
| Green (GPS) | GPS module damaged   | No positioning or antenna damage              | The device has been effectively positioned |

### 3. Specification

| specification                 |                                     |                     |                  |
|-------------------------------|-------------------------------------|---------------------|------------------|
| size                          | 65*50*27mm (length*wideness*height) |                     |                  |
| voltage                       | 9V-30V DC                           |                     |                  |
| Max working current           | 70mA@12V                            |                     |                  |
| Working current in sleep mode | 10mA@12V                            |                     |                  |
| Working temperature           | -30℃~+70℃                           |                     |                  |
| Stock temperature             | -40℃~+85℃                           |                     |                  |
| 3G frequency                  | 800/850/900/1900/2100MHz@UMTS       |                     |                  |
| GSM antenna                   | Built-in                            |                     |                  |
| 3G receiver                   |                                     |                     |                  |
| 3G module                     | QUECTEL UG96                        | Receive sensitivity | <-107dBm         |
| GPS module                    | UBLOX G7020                         | Cold start time     | Less 60s         |
| BT module                     | BK3431Q                             | 2402-2480MHZ        | Bluetooth LE 4.2 |
| RF module                     | BK2535                              | 2406MHZ             | 2.4 GHz GFSK     |

#### 4. Functions

- (1) 3G WCDMA module Global Universal GSM module
- (2) FTP OTA-Remote upgrade
- (3) Working with platform and mobile APP. Each device will has a unique BT name
- (4) Detect ignition on/off
- (5) Reading vehicle battery voltage
- (6) Arm&disarm with command or with FOB
- (7) Enable&disable vehicle with wireless relay
- (8) Send command to get location when ignition on&off
- (9) Alarms for vibration, movement, low voltage, illegal start, over speed etc
- (10) Add siren to find vehicle (optional)

#### 5. SMS command

| SMS command                   | Command description  |
|-------------------------------|--|
| 111111*AT+HOSTS               | Query IP&Port  |
| 111111*AT+HOSTS=8.8.8.8,8888  | set IP&Port  |
| 111111*AT+APN                 | Query APN  |
| 111111*AT+APN=CMNET,user,pass | Set APN,can ignore User and Password                                     |
| 111111*AT+VERSION             | query firmware version   |
| 111111*AT+MAP                 | Check the location (google map link)                                     |
| 111111*AT+RESET               | Reset device   |
| 111111*AT+ARM                 | Arm  |
| 111111*AT+DISARM              | Disarm   |
| 111111*AT+START               | Enable Vehicle (Relay close)   |
| 111111*AT+STOP                | Disable Vehicle (relay open)   |
| 111111*AT+RFRELAY             | Pair wireless relay  |
| 111111*AT+RFMODE=2            | Change RF mode<br>2:horn Mode<br>1:Arm&disarm mode<br>0:Transparent mode |
| 111111*AT+WKUP                | Wake up the device when into sleep mode, and                             |

|                                |   |
|--------------------------------|---|
|                                | send GPRS location  |
| 111111*AT+PASSWORD=222222      | Change SMS password to 222222   |
| 111111*AT+OVERSPEED=110        | Set OverSpeed is 110km/h<br>(30-255km/h)  |
| 111111*AT+GPSTIME=60,7200      | Ontime,Offtime<br>Set OBD data upload interval Ontime<br>60s,Offtime 7200s(2 hour).<br>Para set (0-65535)<br>0:GPRS OFF |
| 111111*AT+OBD=1                | Enable/Disable obd<br>(0:OFF,1ON)   |
| 111111*AT+TIMEZONE=8           | Set timezone is 8<br>(-12~+12 )   |
| 111111*AT+GPRSEN=1             | Set Gprs on<br>(0:GPRS OFF,1:GPRS ON)   |
| 111111*AT+POWERSAVE=1          | Set Power Save Mode on<br>(0:OFF,1ON)   |
| 111111*AT+TURNPOINT=1          | Set Trunning point mode on<br>(0:OFF,1ON)   |
| 111111*AT+LOCATION             | If powersave off and igintio off ,send 2082 to<br>platform from gprs  |
| 111111*AT+VIB                  | Read vibration level  |
| 111111*AT+VIB=8                | Set vibration level<br>(0-30 )  |
| 111111*AT+HB                   | Read heartbeat time   |
| 111111*AT+HB=600               | Set heartbeat time 600s<br>(0-65535S)   |
| 111111*AT+IMEI                 | Read IMEI   |
| 111111*AT+MIL                  | Read Mileage  |
| 111111*AT+MIL=1000             | Set Mileage to 1000km<br>(0-1000000km)  |
| 111111*AT+FUEL                 | Read fuel   |
| 111111*AT+FUEL=1000            | Set Fuel to 1000L<br>(0-1000000L)   |
| 111111*AT+CLRDATA              | Clear All Flash Data  |
| 111111*AT+VOL                  | Read voltage  |
| 111111*AT+IMEI                 | Read IMEI   |
| 111111*AT+IMEI=123456789012345 | Set IMEI  |

## 6. Installation

Easy installation, you can insert SU376B device to vehicle OBD port or use a OBD extend harness to connect to vehicle OBD port

## 7. Common problem analysis

| Question                | Reason  | Solution  |
|-------------------------|---|---|
| Online tracking offline | SIM Card not enough credit                                | Charge credit   |
|                         | SIM Card contact problem                                  | Re-install SIM card   |
|                         | Online tracking parameter setting error                   | Reset Parameters with correct format according to user manual |
|                         | Vehicle in underground car parks or tunnels, signal weak. | Go to good signal area  |
| Cannot locate           | Vehicle in underground car parks or tunnels               | Leave that area   |
|                         | GPS Antenna Side is not up to sky                         | Make the GPS antenna side up to sky                           |

## 8. Attention

- (1) Stay away from water
- (2) Please keep the car battery fully charged
- (4) Working temperature is -30to 70 centigrade, Please cut off power if the temperature is over this range.
- (5) When vehicle is in underground parks, tunnels or garage, maybe GPS signal will not very good. Communication network blind area will be caused and cannot monitor vehicle. When the car is out of that area, it will working good automatically.
- (6) Please not repair by yourself when the device not working properly.

## 9. After-sale service

- (1) During the one-year warranty, please feel free to contact us if there is any problem or damage not caused by human factors.
- (2) Not maintenance:
  - A: Client dismantled privately
  - B: Force majeure (floods, accidents, etc.)
- (3) More than one year damage or faulty maintenance will need to pay for raw material.
- (4) Free to provide customers with the purchase, use, installation and other consultation and technical services.

#### FCC Warning

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

•Increase the separation between the equipment and receiver.

•Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

•Consult the dealer or an experienced radio/TV technician for help.

#### Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.